

**Notice of Allowability**

Application No.

09/812,136

Examiner

Khanh Dinh

Applicant(s)

WILLHIDE ET AL.

Art Unit

2151

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/16/2007.
2. ☒ The allowed claim(s) is/are 22, 23, 25-30, 32-43.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.


**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
KHANH DINH  
PRIMARY EXAMINER  
TECHNOLOGY CENTER 2100

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Linda Shapiro (the Undersigned Attorney, Reg. No.28,264) on 4/16/2007.

The application has been amended as follows:

#### **IN THE CLAIMS:**

Please **cancel** claims 24 and 31.

Please **amend** claims as follows:

1-21. (*Canceled*)

22. (*Currently amended*) An enterprise network management portal system for monitoring and managing at least one enterprise network, wherein each enterprise network includes at least one server system and a plurality of network management means for monitoring the status of each server system and generating management data concerning monitored operating events of the monitored server system that are in need of correction, and wherein the management data include device status data, event data, and device performance monitoring data, the system comprising:

portal means for providing an interface to the plurality of network management means  
for:

(a) receiving the management data from the plurality of computer network management means of an enterprise network and providing the management data for the plurality of network management means to a client for display to a user and

(b) generating workflows that provide corrective measures for monitored operating events that are in need of correction, wherein the client is coupled to the at least one computer network management means,

wherein the portal means includes:

(a) management interface means for providing application and data interface functionality between the at least one computer network management means and the client; and

(b) workflow means for receiving the management data from the plurality of computer network management means and providing in response to the management data one or more workflows for responding to monitored operating events that are in need of correction, and

wherein the workflow means includes:

(1) interface format means for transferring data fields between the client and the plurality of computer network management means in accordance with predetermined data field definitions;

(2) workflow edit means for enabling an operator to set up a workflow for performing functions including device troubleshooting and event management and for generating workflow sequence data;

(3) workflow execution means for receiving the workflow sequence data from the workflow edit means, for executing a workflow sequence in response to an execution command received from a user, for interfacing with the plurality of computer network management means in accordance with the workflow received from the workflow edit means, and for transferring data fields in accordance with previously-defined rules; and

(4) element information means for providing network element data for one of use in workflows and in response to workflows executed through the workflow execution means.

23. *(Previously presented)* The system of claim 22, wherein the at least one enterprise network includes a firewall, wherein the at least one server system, the plurality of computer network management means, and the client are behind the firewall, and wherein the portal means also performs the function of acting as a proxy behind the firewall between the client, the at least one computer network management means, and at least one server system.

24. *(Canceled)*

25. *(Previously presented)* The system of claim 24 22, wherein the portal means provides the management data in a single user-viewable display screen, regardless of whether the plurality of computer network management means are compatible with each other.

26. *(Previously presented)* The system of claim 25, wherein the management interface means includes:

(1) means for receiving the management data and assembling the management data from each of the computer network management means into at least one data display channel for presentation of the management data to a user on a real-time basis in the single user-viewable display screen;

(2) means including a map of user ID and logon password data for each computer network management means that a user is authorized to access for providing the user with single logon functionality, whereby the user does not have to logon separately to each computer network management means; and

(3) means for segmenting access to network management services in accordance with predetermined user and role segmentation rules.

27. *(Previously presented)* The system of claim ~~24~~ 22, wherein the management interface means performs the additional functions of storing:

(1) preset management system window configuration data for the user-viewable display screens for the client,

(2) client modified window configuration data,

(3) user logon data that may be required for a user to access the at least one computer network management means, and

(4) channel format data for facilitating an interface with the at least one computer network management means through one of a firewall and within an intranet.

28. *(Previously presented)* The system of claim 25, wherein the management interface means includes:

(1) client view means for enabling users to select channels for viewing and to customize the layout in the single user-viewable display screen, for receiving view data, for receiving the management data and assembling the management data from each of the computer network management means into at least one channel for presentation of the management data to a user on a real-time basis in the single user-viewable display screen, and for managing the management data to prevent any one of the at least one computer network management means from taking over the client;

(2) channel format means for interfacing with the computer network management means to request management data, for receiving the requested management data for presentation to users through the client view means, and for performing functionality through the computer network management means; and

(3) user login means for providing users with single logon functionality for access to the computer network management means.

29. *(Previously presented)* The system of claim 28, wherein the view data includes at least one of preset client view formats, role or user-restricted view formats, user modified view formats, and other formats that include channel identification data, window size data, data field display data.

30. (*Currently amended*) The system of claim 24 22, wherein the workflow means performs the additional function of enabling at least two unrelated computer network management means to be tied together through a common platform.

31. (*Canceled*)

32. (*Currently amended*) The system of claim 31 22, wherein the interface format means also performs the function of performing format conversions required for transfer of the data fields.

33. (*Currently amended*) The system of claim 31 22, wherein the workflow execution means carries out the function of transferring data fields using the interface format means.

34. (*Currently amended*) The system of claim 31 22, wherein the workflow execution means also performs the function of prompting the user to make a selection, enter data, and terminate a workflow.

35. (*Previously presented*) The system of claim 22, wherein the system monitors and manages a plurality of enterprise networks, and wherein the portal means provides all the management data to a client external to the at least one enterprise network.

36. *(Previously presented)* The system of claim 22, wherein the system monitors and manages a single enterprise networks, and wherein the portal means provides all the management data to at least one client that forms a part of the enterprise network.

37. *(Previously presented)* A combination enterprise network and enterprise network management portal system comprising the system of claim 0, and further comprising at least one enterprise network, wherein the at least one enterprise network includes:

at least one server system and

a plurality of computer network management means for monitoring the status of the at least one server system and generating management data concerning monitored operating events of the at least one server system that are in need of correction.

38. *(previously presented)* The enterprise network and portal system of claim 0, wherein the portal means includes:

(a) management interface means for providing application and data interface functionality between the at least one computer network management means and the client; and

(b) workflow means for receiving the management data from the plurality of computer network management means and providing in response to the management data one or more workflows for responding to monitored operating events that are in need of correction.



39. (*Previously presented*) The enterprise network and portal system of claim 0, comprising a plurality of enterprise networks, wherein the system of claim 22 monitors and manages the plurality of enterprise networks, and wherein the portal means provides all the management data to one client external to the plurality of enterprise networks.

40. (*Currently amended*) A method for monitoring and managing at least one enterprise network, wherein the enterprise network includes a server system and a plurality of computer network management means for monitoring the status of the at least one server system and generating management data concerning monitored operating events of the at least one server system that are in need of correction, the method comprising the steps of:

providing application and data interface functionality between the plurality of computer network management means and a client, wherein the client is coupled to the plurality of computer network management means;

monitoring the server system using the computer network management means;

setting up through an operator a workflow for performing functions including device troubleshooting and event management and for generating workflow sequence data;

transferring data fields between the client and the plurality of computer network management means in accordance with predetermined data field definitions;

using the ~~at least one~~ plurality of computer network management means to generate management data concerning monitored operating events of the server that are in need of correction, wherein the management data include device status data, event data, and device performance monitoring data;

providing the management data to a the client for display to a user, ~~wherein the client is coupled to the plurality of computer network management means;~~

detecting at least one operating event in need of correction;

presenting to a the user via the client at least one workflow in response to the at least one detected operating event;

in response to user selection of at least one workflow, receiving the workflow sequence data and executing a workflow sequence;

interfacing with the plurality of computer network management means in accordance with the workflow received;

transferring data fields in accordance with previously-defined rules; and

providing network element data for one of (1) use in workflows using the at least one workflow to correct the monitored operating events that are in need of correction and (2) in response to executed workflows, thereby managing the enterprise network.

41. *(Previously presented)* The method of claim 40, wherein the management data is provided to a client in a predetermined format in a single user-viewable display screen on a real-time basis, regardless of whether the plurality of computer network management means are compatible with each other.

42. *(Previously presented)* The method of claim 41, wherein the at least one workflow is presented to the user in the single user-viewable display screen.

43. (*Currently amended*) A method for providing portal interface functionality for at least one enterprise network, wherein the enterprise network includes at least one server system and at least one computer network management means for monitoring the status of the at least one server system and generating management data concerning monitored operating events of the at least one server system that are in need of correction, wherein the management data include device status data, event data, and device performance monitoring data, the method comprising:

providing application and data interface functionality between the at least one computer network management means and a client, wherein the client is coupled to the at least one computer network management means;

identifying network management services for remote access;

setting up through an operator a workflow for performing functions including device troubleshooting and event management and for generating workflow sequence data;

configuring a user-viewable display screen to interface with the identified network management services;

logging ~~the~~ a user on to the identified network service with functionality in accordance with predetermined user and role segmentation rules;

receiving management data from at least one of the computer network management means; and

transferring data fields between the client and the at least one computer network management means in accordance with predetermined data field definitions;

providing the management data to the client for display to the user in accordance with predetermined user and role segmentation rules in a predetermined format and in a single user-viewable display screen, regardless of whether the plurality of computer network management means are compatible with each other;

receiving the workflow sequence data and executing a workflow sequence in response to an execution command received from a user,

interfacing with the at least one computer network management means in accordance with the workflow received,

transferring data fields in accordance with previously-defined rules; and

providing network element data for one of use in workflows and in response to executed workflows.

***Allowable Subject Matter***

2. Claims 22, 23, 25-30, 32-43 are allowed.

3. The following is an examiner's statement of reasons for allowance:

The above mention claims are allowable over the prior art of record does not appear to each or render obvious the claimed limitations in combination with the specific added limitations as recited in independent claims and subsequent dependent claims. None of the cited prior art discloses or teaches a system or method for monitoring and managing at least one enterprise network comprising a combination of: portal means for providing an interface to the plurality of network management means for: receiving the management data from the plurality of computer

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network management means of an enterprise network and providing the management data for the plurality of network management means to a client for display to a user and generating workflows that provide corrective measures for monitored operating events that are in need of correction, wherein the client is coupled to the at least one computer network management means, wherein the portal means including of management interface means for providing application and data interface functionality between the at least one computer network management means and the client; and workflow means for receiving the management data from the plurality of computer network management means and providing in response to the management data one or more workflows for responding to monitored operating events that are in need of correction, and wherein the workflow means including of interface format means for transferring data fields between the client and the plurality of computer network management means in accordance with predetermined data field definitions, workflow edit means for enabling an operator to set up a workflow for performing functions including device troubleshooting and event management and for generating workflow sequence data, workflow execution means for receiving the workflow sequence data from the workflow edit means, for executing a workflow sequence in response to an execution command received from a user, for interfacing with the plurality of computer network management means in accordance with the workflow received from the workflow edit means, and for transferring data fields in accordance with previously-defined rules, and element information means for providing network element data for one of use in workflows and in response to workflows executed through the workflows.

### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Dinh whose telephone number is (571) 272-3936. The examiner can normally be reached on Monday through Friday from 8:00 A.m. to 5:00 P.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung, can be reached on (571) 272-3939. The fax phone number for this group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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